## IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

- 1. (currently amended) A gypsum board, comprising:
  - a gypsum layer having a first face and a second face and comprising set
    gypsum; and
  - b. first and second facers affixed to said first and second faces, said first facer being a fibrous mat comprising a non-woven web bonded together with a resinous binder, and said web being composed of chopped continuous-glass fibers having an average fiber diameter ranging from about 9.5 to 12.5 μm.
- 2. (currently amended) A gypsum board as recited by claim 1, wherein said chopped continuous glass fibers are composed of at least one member selected from the group consisting of E glass, C glass, T glass, sodium borosilicate glass, and mixtures thereof.
- (currently amended) A gypsum board as recited by claim 1, wherein said chopped continuous glass fibers are composed of E glass.
- 4. (currently amended) A gypsum board as recited by claim 1, wherein at least about 90% by weight of said chopped continuous glass fibers have a diameter ranging between about 9.5 and 12.5 μm.

- 5. (currently amended) A gypsum board as recited by claim 1, wherein at least about 95% by weight of said chopped continuous glass fibers have a diameter ranging between about 9.5 and 12.5 μm..
- 6. (currently amended) A gypsum board as recited by claim 1, wherein at least about 97% by weight of said chopped continuous-glass fibers have a diameter ranging between about 9.5 and 12.5 μm.
- (currently amended) A gypsum board as recited by claim 1, wherein said chopped continuous-glass fibers have an average fiber length ranging from about 6 to 12 mm.
- 8. (currently amended) A gypsum board as recited by claim 1, wherein at least a majority of said chopped continuous-glass fibers have a fiber length ranging from about 6 to 18 mm.
- 9. (original) A gypsum board as recited by claim 1, wherein said resinous binder is composed of at least one member selected from the group consisting of urea formaldehyde; conventional modified urea formaldehyde; acrylic resin; melamine resin; high nitrogen melamine resin; homopolymer and copolymer of polyacrylic acid having a molecular weight of less than 10,000; crosslinking acrylic copolymer; crosslinked vinyl chloride acrylate copolymer; and modified acrylic latex binder.
- 10. (original) A gypsum board as recited by claim 1, wherein said resinous binder is composed of a modified acrylic latex binder.

- 11. (original) A gypsum board as recited by claim 9, wherein said resinous binder further comprises a cross-linker in an amount ranging up to about 10 weight percent.
- 12. (original) A gypsum board as recited by claim 11, wherein said cross linker is present in an amount ranging from about 2 to 5 weight percent.
- 13. (original) A gypsum board as recited by claim 11, wherein said resinous binder comprises melamine formaldehyde.
- 14. (original) A gypsum board as recited by claim 1, wherein said resinous binder has a glass transition temperature ranging from about 15 to 45°C.
- 15. (original) A gypsum board as recited by claim 1, wherein said resinous binder further comprises at least one water repellant agent.
- 16. (currently amended) A gypsum board as recited by claim 1, wherein said fibrous mat further comprises an effective amounts of at least one of a flame retardant, a fine particles of limestone, glass, clay, coloring pigments, biocide, a fungicide, intumescent material, or and mixtures thereof.
- 17. (original) A gypsum board as recited by claim 1, wherein said fibrous mat has a basis weight ranging from about 0.6 to 2.2 pounds per 100 square feet.
- 18. (original) A gypsum board as recited by claim 17, wherein said fibrous mat has a basis weight ranging from about 0.9 to 2.2 pounds per 100 square feet.
- 19. (original) A gypsum board as recited by claim 18, wherein said fibrous mat has a basis weight of about  $1.25 \pm 0.2$  pounds per 100 square feet.

20. (original) A gypsum board as recited by claim 1, said second facer comprising kraft paper.

- 21. (original) A gypsum board as recited by claim 1, said second facer comprising a fibrous mat.
- 22. (currently amended) A gypsum board as recited by claim 1, said second facer being a fibrous mat comprising a non-woven web bonded together with a resinous binder, and said web being composed of chopped continuous glass fibers having an average fiber diameter ranging from about 9.5 to 12.5 μm.
- 23. (original) A gypsum board as recited by claim 1, wherein said gypsum core further comprises at least one water repellant agent.
- 24. (original) A gypsum board as recited by claim 1, wherein said gypsum core further comprises reinforcing fiber.
- 25. (original) A gypsum board as recited by claim 1, wherein said gypsum core further comprises a biocide.
- 26. (original) A gypsum board as recited by claim 1, said board having flame resistance sufficient to pass the test of ASTM Method E84, Class 1.
- 27. (currently amended) In a gypsum board having a first face and a second face and a non-woven fibrous mat affixed to at least one of said faces, the improvement wherein said mat comprises a web bonded together with a resinous binder and comprising chopped continuous-glass fibers having an average fiber diameter ranging from about 9.5 to 12.5 μm.

- 28. (withdrawn) A process for manufacturing an article comprising a hydraulic set material layer having first and second faces, and first and second facers affixed thereto, at least said first facer comprising a non-woven, fibrous mat, the process comprising:
  - a. providing said non-woven, fibrous mat having a fibrous web composed of chopped continuous glass fibers having an average fiber diameter ranging from about 9.5 to 12.5 µm bound together with a resinous binder;
  - forming an aqueous slurry comprising at least one member selected from the group consisting of anhydrous calcium sulfate, calcium sulfate hemi-hydrate, and hydraulic setting cement;
  - c. distributing the slurry to form a layer on said first facer;
  - d. applying said second facer onto the top of said layer;
  - e. separating the resultant laminate into individual articles; and
  - f. drying the articles.
- 29. (currently amended) A fibrous mat comprising a non-woven web bonded together with a resinous binder, said web being composed of chopped continuous-glass fibers having an average fiber diameter ranging from about 9.5 to 12.5 μm.
- 30. (currently amended) A fibrous mat as recited by claim 29, wherein at least about 90% by weight of said chopped continuous-glass fibers have a diameter ranging between about 9.5 and 12.5 μm.

31. (original) A fibrous mat as recited by claim 29, said mat having a permeability of at least about 300 cfm/ft<sup>2</sup> measured by the Frazier test.

- 32. (currently amended) A hydraulic set board, comprising:
  - a. a hydraulic set material layer having a first and a second face; and
  - b. first and second facers affixed to said first and second faces, at least of said first facer being a fibrous mat comprising a non-woven web bonded together with a resinous binder, and said web being composed of chopped continuous-glass fibers having an average fiber diameter ranging from about 9.5 to 12.5 μm.